CLAIMS

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1. A filtration method for liquid metal by having said liquid metal pass on a bed of refractory particulate material characterized in that the particulate material has an open porosity between 5 and 30%.

2. The filtration method according to claim 1, characterized in that the residence time of the liquid metal in the particulate material bed is greater than 1 sec and less than 500 secs.

3. The filtration method according to any of claims 1 or 2, characterized in that the porosity substantially stems from pores with a diameter greater than 10 µm and preferably between 10 and 200 µm.

4. The filtration method according to any of claims 1 to 3, characterized in that the material has a particle size between 0.2 and 20 mm and the bed has a thickness between 4 and 40 cm.

5. The filtration method according to any of claims 1 to 4, characterized in that the material is electrofused corundum.

6. The filtration method according to any of claims 1 to 5, characterized in that the liquid metal is selected from aluminium, magnesium or their alloys.

7. The method for obtaining corundum according to claim 5, characterized in that it comprises electrofusion of alumina, a casting, a cooling and solidification process in order to obtain said porosity, a crushing then a screening process.

8. A corundum used in the method according to any of claims 1 to 6, or obtained according to the method of claim 7, characterized in that it has a porosity

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between 5 and 30%.

9. A filtration device for liquid metal including the material according to claim 8.

10. Use of a filtration device for liquid metal including the material according to claim 8 in the method according to any of claims 1 to 6.

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